

## ABSTRACT

Active fixation, gastrointestinal leads adapted to be implanted within the body at a site of the GI tract to conduct electrical stimulation from an implantable or external gastrointestinal stimulator to the site and to conduct electrical signals of the GI tract from the site to the implantable or external gastrointestinal stimulator are disclosed. Disclosed active fixation mechanisms include one or more of hooks, and helixes extending from stops, e.g. plates, of an electrode head and functioning as stimulation/sense electrodes in unipolar and bipolar configurations or simply as fixation mechanisms. The active fixation mechanisms are coated to reduce inflammation and polarization effects.